

Footnote XX (footnote applied to selenium human health criterion, consumption of organisms only)

Fish tissue residue data may be used to evaluate compliance with the human health criterion for consumption of organisms only for selenium, and to provide an indication of the need for reassessment of the protectiveness of the selenium criterion for water. The fish tissue concentration of 7.8 mg/kg corresponds to the surface water criterion of XXX µg/L. If water column data of sufficient quality are available in addition to fish tissue data, the water column data should be used to determine compliance with the criteria. However, in this case fish tissue data may be used to supplement the water quality data, for example, to confirm the accuracy of the BCF on a site-specific basis and to evaluate the need to develop site-specific human health criteria for selenium.

The fish tissue benchmark of 7.8 mg/kg is derived using the same factors used for the selenium criterion for water, including a reference dose of 0.005 mg/kg-day, a relative source contribution of 0.2, the FCR of 175 g/day, and the body weight of 80 kg. The selenium criterion for surface water was derived from this fish tissue value by applying a bioconcentration factor of 4.8 and making adjustments for the units. Accordingly, the tissue benchmark can also be derived using the equation: $(BCF \times HHC_{org} \text{ only}) \div 1000 =$ fish tissue residue benchmark in mg/kg.

Commented [ME1]: This is a dry weight value; would we need the wet weight equivalent here, or better to go with dry weight? Maybe use the same basis as for fish advisories (not sure which is used there), for easy translation?

Commented [ME2]: Is this correct? Or is a RSC of 0.5 used for the water criteria?